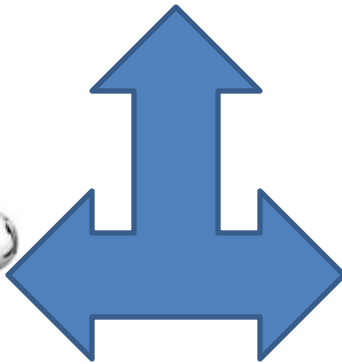
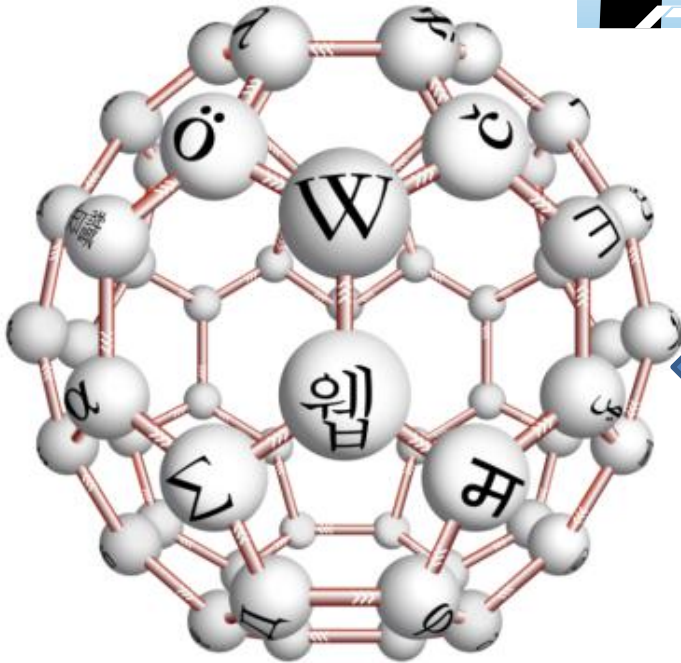


# Introducing :: WikiTags

WikiTags connects Microsoft Office users



[[ Jesse Wang ]]

[[ Project Halo ]]

[[ Vulcan Inc. ]]

[[ contact :: jessew@vulcan.com | @aiwang]]

# SMW:: powerful tools and contents



*Semantic MediaWiki and related extensions have more potential power*

# Need Release :: *The (more) Power*

- Be used by **more people**
- Content in **more places**
- Accessible via **more applications**
- Enhanced with **more semantics**



# Need :: *Workflow Integration + Usability Enhancements*

- **Infrequent** Wiki users **frequently** forget where the wiki pages are located
- Search is a **break** from current workflow
- Search result can be **noisy** or **irrelevant**
- **Usability:**
  - **Wiki/Template/SF markup syntax** is not extremely hard, but enough to turn off many users
  - To locate and consume info in SMW is just not easy enough, **need something better**
- *Why don't we leverage **Microsoft Office suite**?*



# Microsoft Office ::

## The Most Popular Productivity Suite

500m users worldwide

>90% market share

Users live in the “suite”

Outlook *always* open

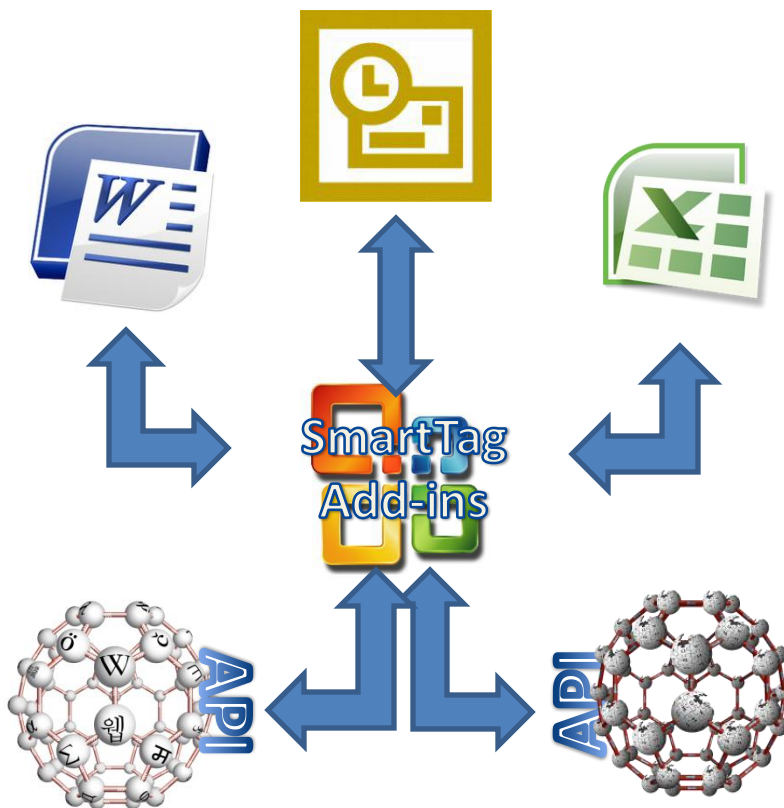
Potential for SMW



Microsoft®  
**Office**

# WIKITAGS :: How It Works

- Leverage Microsoft SmartTags technology
- Bring SMW info to Office applications on-demand
- API for semantic data I/O
- Utilize semantics to improve relevance
- Smart actions for semant properties



Smarts

Connections

For more info, go to  
<http://wiking.vulcan.com/dev/>

Before the demo, let's look at

## SOME SEMANTIC WIKIS



# Wiki:: Semantic Sci-Fi Movie

The screenshot shows a web interface for a Semantic Wiki. At the top left is a clapperboard icon. Below it are navigation links: Main Page, Recent changes, and Help. A search bar with 'Go' and 'Search' buttons is present. A 'browse' section on the left lists Sci-Fi Films with filters for budget (e.g., <= \$10 million, <= \$15 million, <= \$30 million, <= \$50 million, > \$50 million) and a list of movies including 'Aliens vs. Predator', 'Battlefield Earth', 'Children of Men', 'Frequency (film)', 'K-PAX (film)', 'A Sound of Thunder', and 'The 6th Day'. The main content area displays the movie 'The 6th Day' with a poster image. Above the poster are tabs for 'page', 'discussion', 'annotate', and 'view source'. Below the poster, the movie's details are listed: Directed by Roger Spottiswoode, Produced by Mike Medavoy, Arnold Schwarzenegger, Jon Davison, Written by Cormac Wibberley, Marianne Wibberley, Starring Arnold Schwarzenegger, Michael Rapaport, Tony Goldwyn, Michael Rooker, Sarah Wynter, Robert Duvall, Music by Trevor Rabin, Distributed by Columbia TriStar, Release date(s) November 17, 2000, and Running time 123 min.

Familiar content just like another wiki

Semantic markups shown in fact box

## Facts about The 6th Day

RDF feed

Actor	<a href="#">Arnold Schwarzenegger</a> + <a href="#">Michael Rapaport</a> + <a href="#">Tony Goldwyn</a> + <a href="#">Michael Rooker</a> + <a href="#">Sarah Wynter</a> + <a href="#">Robert Duvall</a> + <a href="#">...</a>
Allmovie profile id	<a href="#">1:214080</a> + <a href="#">...</a>
Budget	<a href="#">82,000,000</a> + <a href="#">...</a>
Composer of original music	<a href="#">Trevor Rabin</a> + <a href="#">...</a>
Director	<a href="#">Roger Spottiswoode</a> + <a href="#">...</a>
Distributor	<a href="#">Columbia TriStar</a> + <a href="#">...</a>
IMDb profile id	<a href="#">0216216</a> + <a href="#">...</a>
Language	<a href="#">English</a> + <a href="#">...</a>
Producer	<a href="#">Mike Medavoy</a> + <a href="#">Arnold Schwarzenegger</a> + <a href="#">Jon Davison</a> + <a href="#">...</a>
Release date	<a href="#">17 November 2000</a> + <a href="#">...</a>
Runtime	<a href="#">123</a> + <a href="#">...</a>
Writer	<a href="#">Cormac Wibberley</a> + <a href="#">Marianne Wibberley</a> + <a href="#">...</a>

Category: Science fiction films



# Wiki:: NGT - Proposal Handling

## Edit Proposal: Doghouse

**Warning:** You are not logged in. Your IP address will be recorded in this page's edit history.

(Reviewers only) Click here to do first review to this project proposal.

Doghouse - Next Great Thing - Windows Internet Explorer

http://wiking.vulcan.com/ngt/index.php/Doghouse

the Next Great Thing

[Edit](#) [Page](#)

### Doghouse

For the longest time, the small dog called a small cardboard box home. This is unacceptable. The house should be made of wood, or perhaps titanium.

#### Contents

[hide]

- 1 Why should this be developed or researched?
- 2 Describe any known costs to develop this project
- 3 Required timeframe for completion if known
- 4 Implementation ideas
- 5 Challenges and Risks

<b>ID</b>	NGT09-0036
<b>Submitted by</b>	<a href="#">Dennis Schneider</a>
<b>Submitted on</b>	2009/05/15
<b>Suggested priority</b>	Medium
<b>Status</b>	Edit proposal
<b>Short summary</b>	Small dog, big house
<b>Requested by</b>	<a href="#">Dennis Schneider's wife</a>
<b>Rate this proposal</b>	☆☆☆☆☆ not yet rated

Why should this be developed or researched?

To create world peace

Describe any known costs to develop this project

Estimate how much it may cost : **2500** USD. Many things:

- Materials
- Time to buy materials
- Design
- Review
- Labor
- Quality Assurance by Dogs and human
- Show off

Required timeframe for completion if known

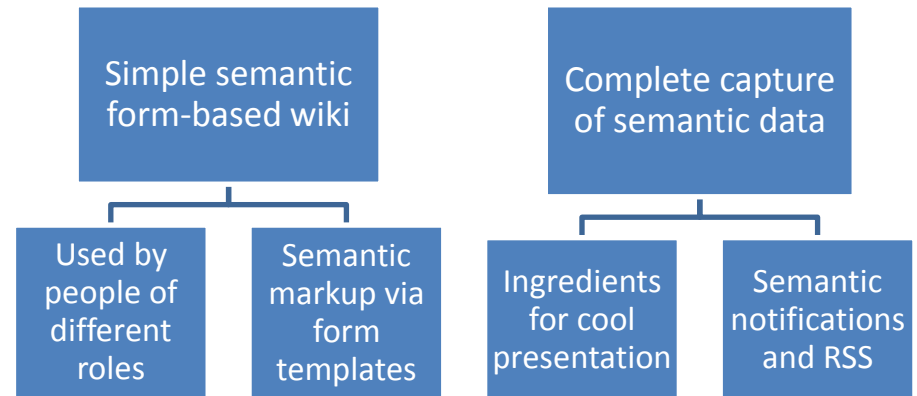
2009/08/16

Implementation ideas

## Describe any known costs to develop this project\*

Many things:

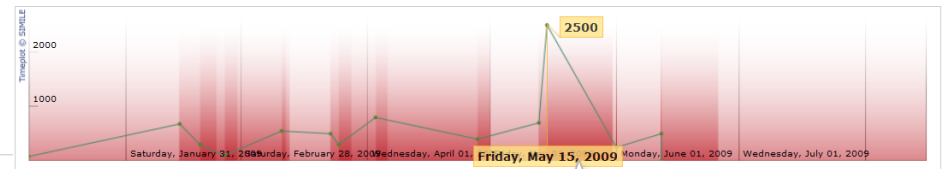
- \* Materials
- \* Time to buy materials



## Proposals Visualized

The curve is for cost; the span is about how long it takes, and the horizontal line indicates when the proposals were submitted.

Click on each dot (or the vertical line) you'll see the detailed description of each proposal.



This page was last modified on 14 May 2009, [About Next Great](#)

**Doghouse**  
**Cost estimate :** 2500  
**Submitted on :** 15 May 2009  
**Submitter :** [Dennis Schneider](#)  
**Timeframe :** 16 August 2009  
**Summary :** Small dog, big house  
Fri, 15 May 2009 00:00:00 GMT  
Sun, 16 Aug 2009 00:00:00 GMT

# Wiki :: Agile Project Management

✓ Project Wiki for Milestones, User Stories, Developer Tasks, etc.

✓ Page is form-based, with queries and semantics built-in

Watch Protect Move Delete History Edit source Edit annotate Discussion Page

Persona  
Jesse

## Vulcan Project Wiki

Search  Go Search

## Vulcan Project Wiki

Search  Go Search

Watch Protect Move Delete History Edit source Edit annotate Discussion Page

**Personal tools**

- Jesse
- My talk
- My preferences
- My watchlist
- My contributions
- Log out

**Navigation**

- WikiTag
- Main Page
- Recent changes
- Notify Me
- Query Interface
- Ontology

**Forms**

- New Milestone
- New Report
- Other Forms

**Current sprint**


- Sprint 100510

**Working on stories**

- Continue to improve Dev Wiki
- Improving SVN Integration

Special pages

### Insert semantic data error in Office 2007 German version



**Insert semantic data error in Office 2007 German version**

**Related story** [Maintenance \(WikiTags, Sprint 100510\)](#)

**Reporter** [Justin Zhang](#)

**Report date** 2010/05/20

**Priority** 1

**Debugger**

**Fix date**

**Status** Opened

[\[edit\]](#) SVN log

Can't use the function to insert semantic data into documents. The add-in inserts nothing or an empty table. And "Insert as Plain Text" doesn't work, either.

**Category:** [Project bugs](#)

**Static facts** **Derived facts**

**Facts about [Insert semantic data error in Office 2007 German version](#)** [RDF feed](#)

<a href="#">Bug priority</a>	1 ±
<a href="#">Bug report date</a>	20 May 2010 ±
<a href="#">Bug reporter</a>	<a href="#">Justin Zhang</a> ±
<a href="#">Project bug status</a>	Opened ±
<a href="#">Project story</a>	<a href="#">Maintenance (WikiTags, Sprint 100510)</a> ±

[\[edit\]](#) bugs

For more info, go to  
<http://wiking.vulcan.com/dev/>

Now see the demo

**LIVE ACTIONS**

# Backstage::Semantic Connector

- Extension to facilitate semantic data exchange
- Web UI to make semantic schema mapping for semantic wiki templates and forms
- Web service APIs to do the same
- <http://wiking.vulcan.com/dev/index.php/SemanticConnectorExtension>

The screenshot shows the 'Vulcan Project Wiki' interface. At the top, there is a search bar and a 'Go' button. Below the search bar, the text 'Edit Developer: Test2 Justin' is visible. The main content area displays a form for editing a developer profile. The form includes fields for Name, Current project, Email, Phone, Company, Department, Job Title, Address, City, Street, Country, Postal Code, Web Page Address, Skill set, and Free text. A sidebar on the left contains navigation links such as 'Personal tools', 'My talk', 'My watchlist', 'Log out', 'Main Page', 'Notify Me', 'Categories', 'All Milestones', 'All Stories', 'All Tasks', 'All Bugs', 'All Status Reports', and 'Forms'. A 'Schema' window is open, showing a list of 'Applicable Forms' and a 'Form' window is also visible.

Schema

Form

Personal tools

My talk

My watchlist

Log out

Navigation

Main Page

Notify Me

Categories

All Milestones

All Stories

All Tasks

All Bugs

All Status Reports

Forms

New Sprint

Search

Go

Search

Edit Developer: Test2 Justin

Current editing form is **Developer**.

☒ **Related Forms (Check to view)**

**BE CAREFUL** All possible forms applicable to this page

Project manager

Team member

Wiki Contact

Outlook Wiki Contact

Double click item in **Applicable Forms** to edit page with select form.

Name: [George Test2 Justin Contact Picture.jpg]

Current project:

Email: aaaa@aa.com

Phone:

Company: Teammersion.com

Department: MIS2

Job Title: Developer

Address: People Square Shanghai Shanghai 200

City: Shanghai

Street: People Square

Country:

Postal Code: 200001

Web Page Address:

Skill set:

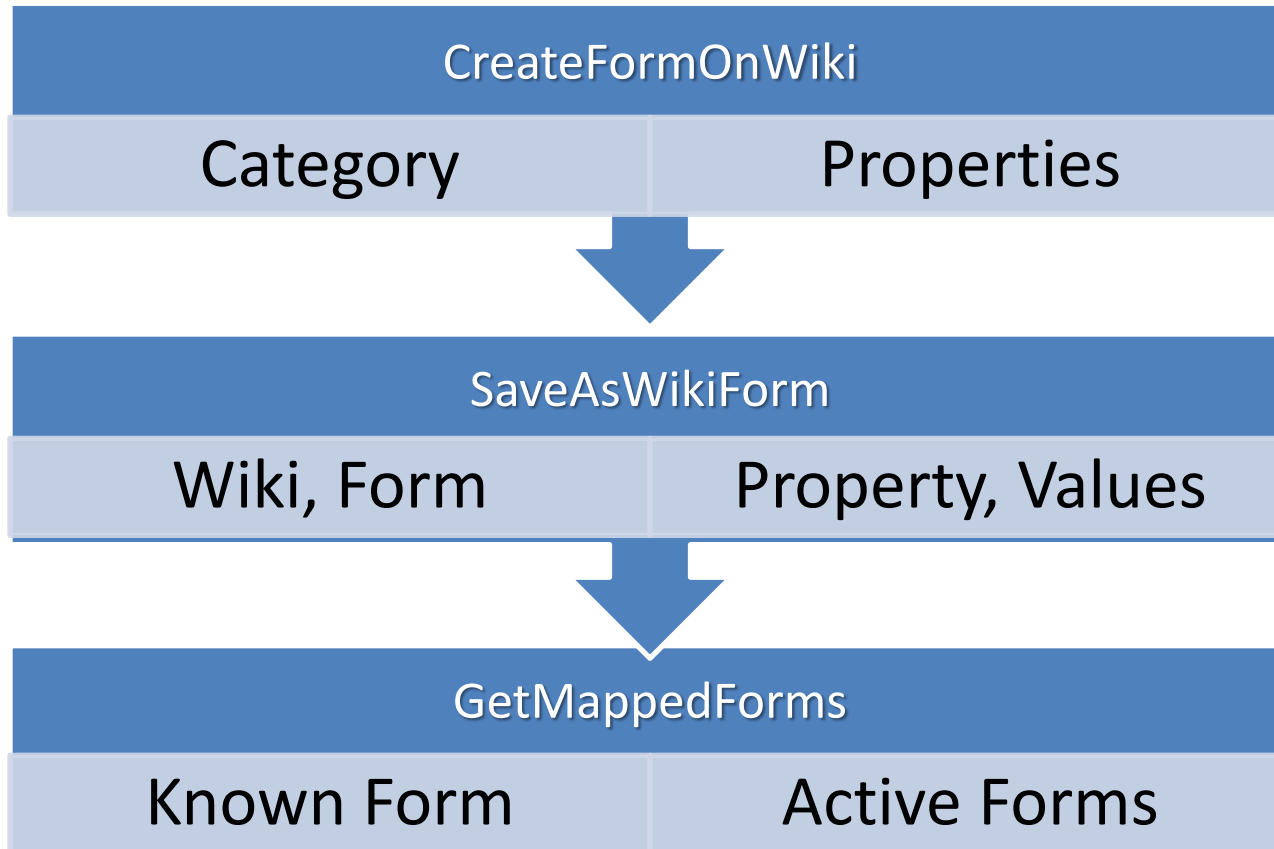
Free text:

Please drag "Available" to the form

Drop to

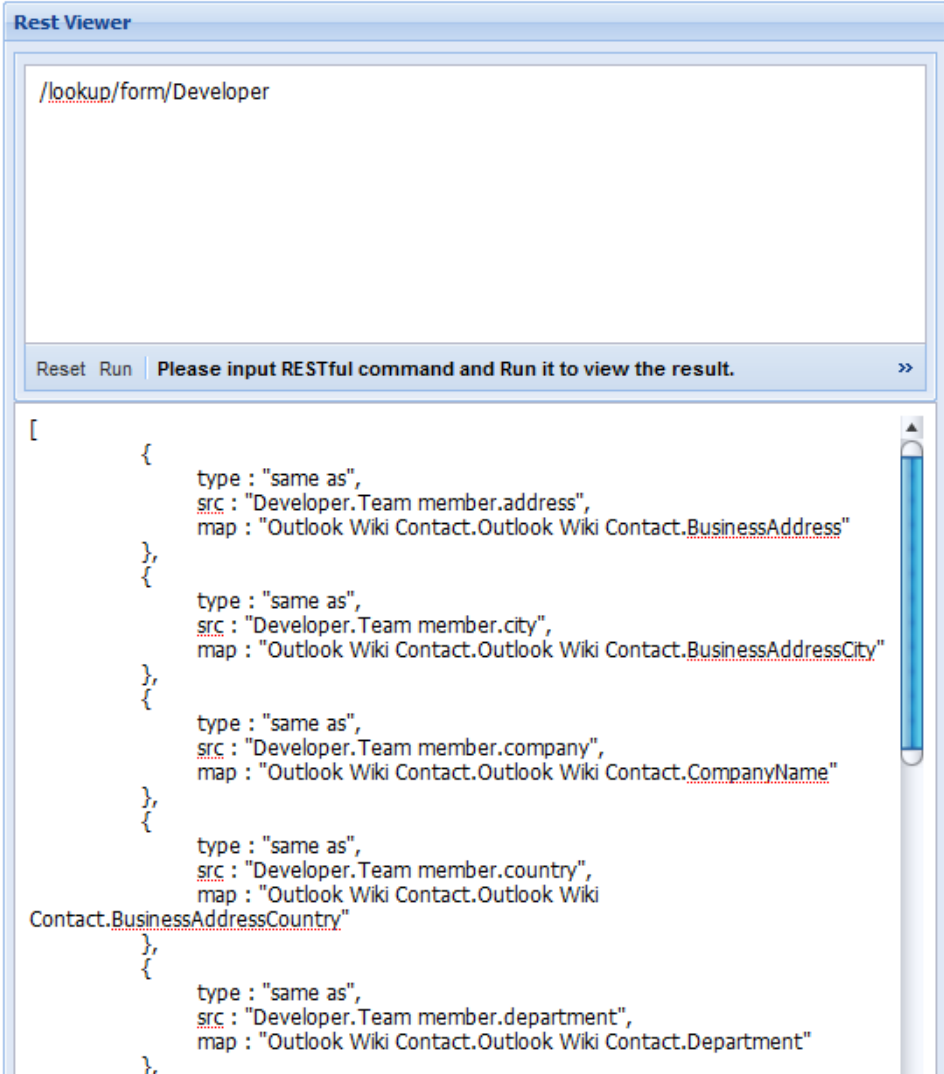
Close

# Backstage::S.C. API



# Special:ApiTest :: Results in JSON

REST Sandbox



The screenshot shows a web application titled "Rest Viewer". It has a text input field containing the RESTful command `/lookup/form/Developer`. Below the input field is a control bar with "Reset" and "Run" buttons, followed by the text "Please input RESTful command and Run it to view the result." and a right-pointing arrow. The main area of the application displays the JSON response to the command, which is a list of five objects. Each object contains three fields: "type", "src", and "map". The "type" field for all objects is "same as". The "src" field maps a specific property from the "Developer.Team member" object to a property in the "Outlook Wiki Contact" object. The "map" field shows the resulting path to the data in the "Outlook Wiki Contact" object.

```
[
  {
    type : "same as",
    src : "Developer.Team member.address",
    map : "Outlook Wiki Contact.Outlook Wiki Contact.BusinessAddress"
  },
  {
    type : "same as",
    src : "Developer.Team member.city",
    map : "Outlook Wiki Contact.Outlook Wiki Contact.BusinessAddressCity"
  },
  {
    type : "same as",
    src : "Developer.Team member.company",
    map : "Outlook Wiki Contact.Outlook Wiki Contact.CompanyName"
  },
  {
    type : "same as",
    src : "Developer.Team member.country",
    map : "Outlook Wiki Contact.Outlook Wiki Contact.BusinessAddressCountry"
  },
  {
    type : "same as",
    src : "Developer.Team member.department",
    map : "Outlook Wiki Contact.Outlook Wiki Contact.Department"
  }
]
```



For more info, go to  
<http://wiking.vulcan.com/wikitag/>

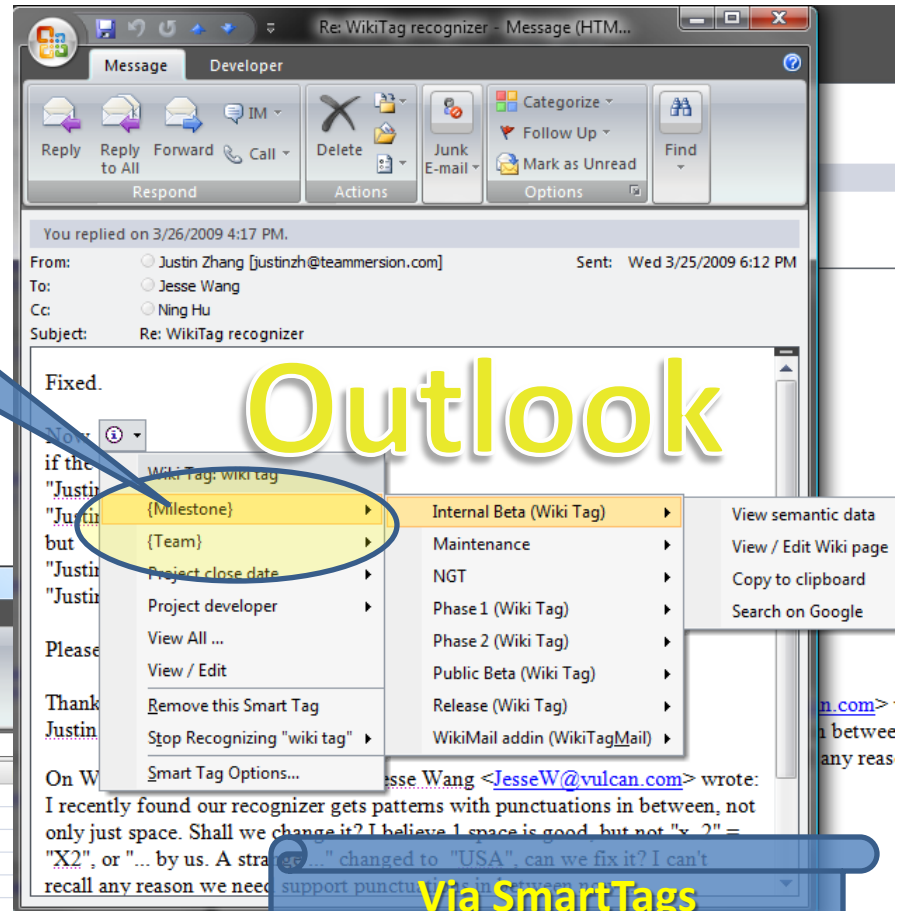
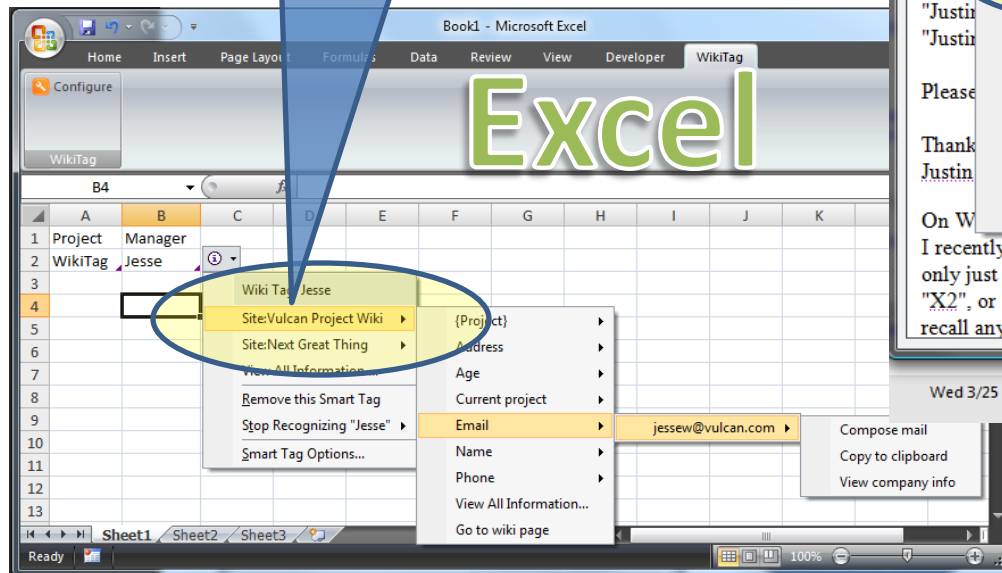
What to take away from the demo

## RECAP OF DEMO

# Semantic Info::Across Office Apps

Dynamic Query  
Results from the  
article page

Multiple Wiki Sites  
supported



Via SmartTags  
WikiTags recognizes  
smartly the keywords or  
phrases relevant to you

# Semantic Info::In Real-time

Explore related real-time semantic info across the links in article

See articles in categories live

Wiki Tag: project bugs

Create an instance using Project\_Bug

Total 27 articles in Project bugs

- \*Office Add-in Setup Error ▶
- \*Office Add-in: Toolbar do not show up in Outlook ▶
- \*Wrong template field when editing with Semantic Form ▶
- \*WikiTag/Mail addin appears on non-mail items ▶
- \*'Apply all' in site detail config (Wiki Tag) ▶
- \*WikiTag name is "wrong" ▶
- \*My WikiTag is in "inactive" state again ▶

View All Information...

Go to wiki page

Remove this Smart Tag

Stop Recognizing "project bugs" ▶

Smart Tag Options...

Semantic properties: [Wiki Tag]

\* Semantic property values associated with the wiki article are shown below. Right-click a value to perform an action on it.

- Vulcan Project Wiki
  - Wiki Tag
    - (Milestone)
      - Add More Semantic...
      - Integration with SM...
      - Internal Beta (Wiki...
      - Maintenance
      - NGT
      - Phase 1 (Wiki Tag)
      - Phase 2 (Wiki Tag)
      - Phase 3 (Wiki Tag)
      - Public Beta (Wiki Ta...
      - Release (Wiki Tag)
      - WikiMail addin (Wiki...
      - WikiNG Initiative 1
      - (Project bug)
      - Machine not respon...
      - Missing WikiMail tod...
      - More Properties UT...
      - Why "Create a Wiki...
      - WikiTag name is "w...
      - WikiTag/Mail addin
    - (Team)
      - Ben Duncan
      - Jesse
      - Justin Zhang
      - Ning Hu
    - Project close date
      - 15 April 2009
    - Project developer
      - Justin Zhang
      - Ning Hu
    - Project manager
      - Jesse
    - Project name
      - Wiki Tag
    - Project sponsor
      - Project Halo
    - Project start date
      - 18 August 2008
    - Project status
      - NGT

Semantic properties: [NGT]

\* Semantic property values associated with the wiki article are shown below. Right-click a value to perform an action on it.

- Vulcan Project Wiki
  - NGT
    - (Story)
      - Add more SIMILE widget to NGT
      - Add NotifyMe for other users
      - Add NotifyMe to NGT wiki
      - Auto authenticate from AD account to NGT wiki account

Semantic properties: [Add more SIMILE widget to NGT]

\* Semantic property values associated with the wiki article are shown below. Right-click a value to perform an action on it.

- Vulcan Project Wiki
  - Add more SIMILE widget to NGT
    - (Task)
      - Add runway SIMILE widget extension to NGT
      - Add timeplot SIMILE widget extension to NGT
      - Executor
        - Ning Hu
      - Project sprint
        - NGT
      - Project story description
        - SMW + patch includes SIMILE Exhibit / Timeline widget,
      - Project story estimate
        - 3
      - Project story priority
        - 5
      - Project story reviewer
        - Jesse
      - Project story status

Insert Into Document

\* Insert the semantic properties into your document.

As Plain Text

As Table

Close

# WikiTags::Semantic Actions

Office Add-in: Auto-login Release

Justin Zhang

Follow up. Start by Friday, August 14, 2009. Due by Friday, August 14, 2009.

Sent: Fri 8/14/2009 8:16 AM

To: Jesse Wang; Patrick Cai; ning@teammersion.com

Semantic actions are based on semantic services of properties

Hi Jesse,

check the last version (352). We have finished Auto-login feature.

Wiki Tag: Jesse

- {Project}
- Address: Redmond, WA 98052
  - View on Google map
  - Copy to clipboard
- Age
- Current project
- Email
- Name
- Phone
- View All Information...
- Go to wiki page
- Remove this Smart Tag
- Stop Recognizing "Jesse"

Remove Selected Sites

00007

Sprint start date

25 March 2009

Sprint status

Finished

Show calendar of this day

Search on Google

Copy to clipboard

Insert Into Document

\* Insert the semantic properties into your document.

Wiki Tag: Jesse

- Site:Next Great Thing
- Site:Vulcan Project Wiki
- View All ...
- Remove this Smart Tag
- Stop Recognizing "Jesse"
- Smart Tag Options...

{Project}

Address

Age

Current project

Email

Name

Phone: +1 (206) 2956316

- Call this number
- Copy to clipboard

View All ...

View / Edit

recall any reason we need support punctuations in between now...

Wiki Tag: Jesse

- Site:Next Great Thing
- Site:Vulcan Project Wiki
- View All ...
- Remove this Smart Tag
- Stop Recognizing "Jesse"
- Smart Tag Options...

{Proposal}

About me

Email: jessew@vulcan.com

- Compose mail
- Copy to clipboard
- View company info

Manager

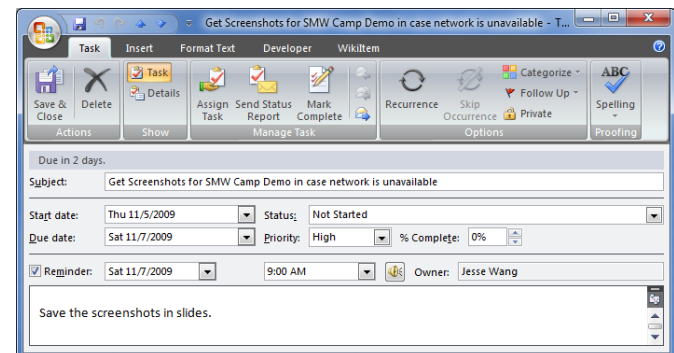
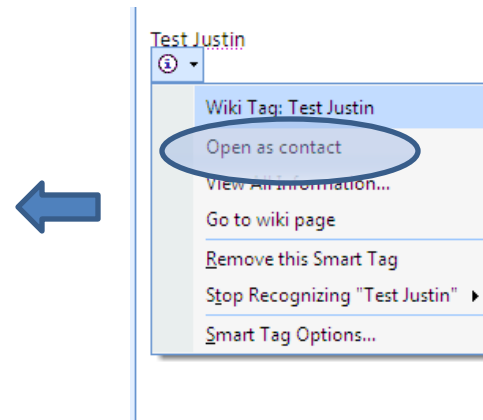
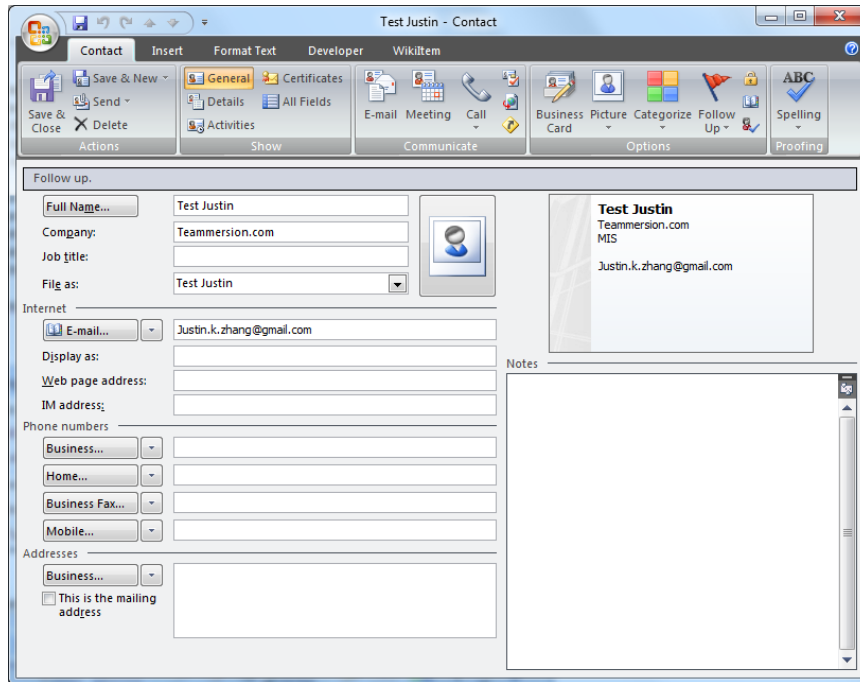
Person Image

Person title

View All ...

# Wiki Forms::In Microsoft Office

- View Semantic Content in familiar forms
- Contribute into Wiki articles back



# Screenshots::WikiMail

Shortcut to create  
wiki articles

Upload Emails into  
Wiki

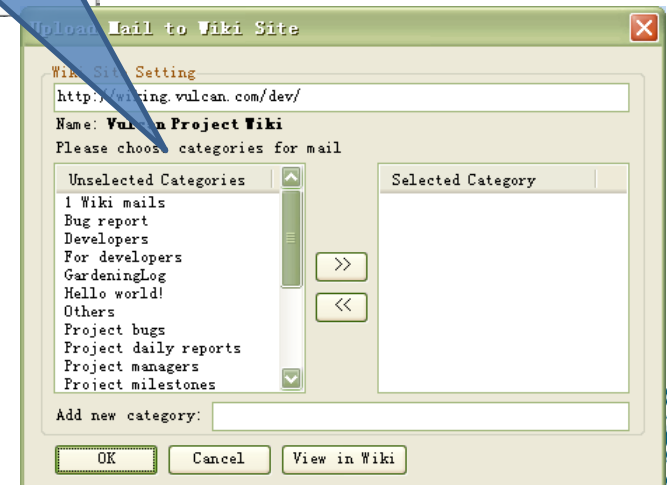
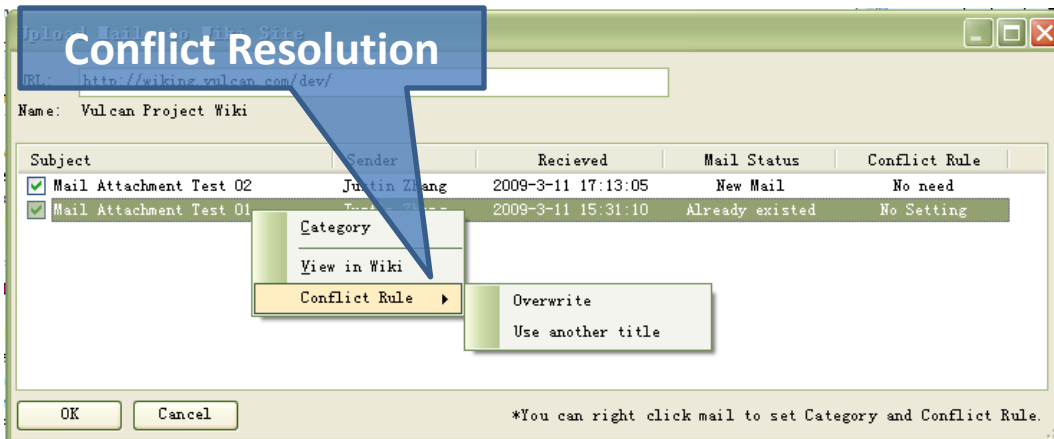
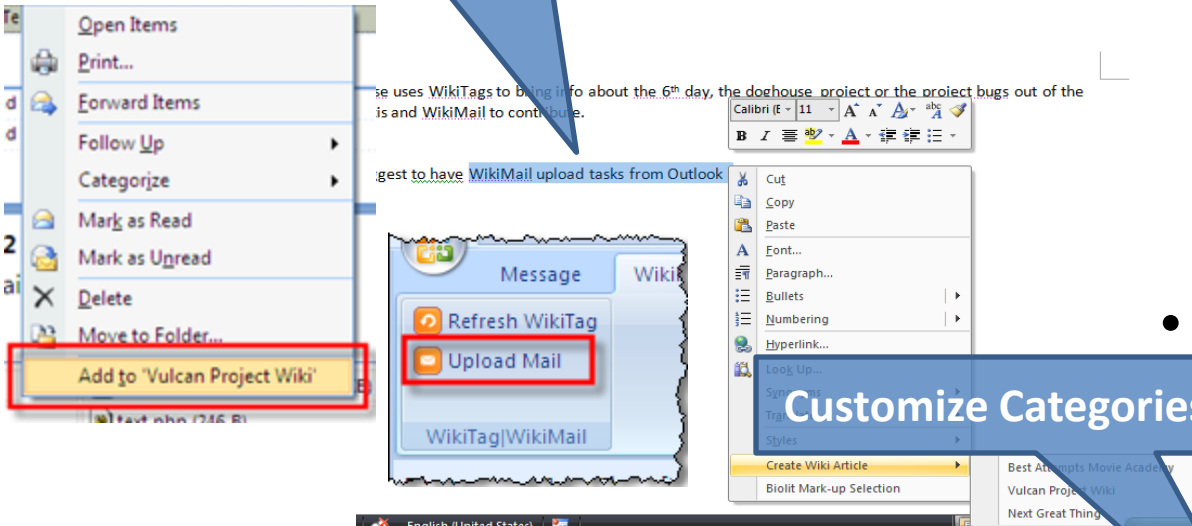
- Manual upload
- Automatic upload by folder mapping
- Conflict handling

- Heuristic category

- Use recipients, folders and text

Customize Categories

Conflict Resolution





## Personal tools

[Log in](#)

## Navigation

[WikiTag](#)[Main Page](#)[Recent changes](#)[Random page](#)[Notify Me](#)[Query Interface](#)[Ontology](#)

## Categories

[All Milestones](#)[All Stories](#)[All Tasks](#)[All Bugs](#)[All Status Reports](#)

## Forms

[New Story](#)[New Task](#)[New Bug](#)[New Report](#)[Other Forms](#)

## Toolbox

[What links here](#)[Related changes](#)[Upload file](#)[Special pages](#)

Bug report: strange text in project task description field in fact box (with attached picture)

*Auto generated by Outlook Addin, please don't modify this page.*

From [JesseW@vulcan.com](mailto:JesseW@vulcan.com)

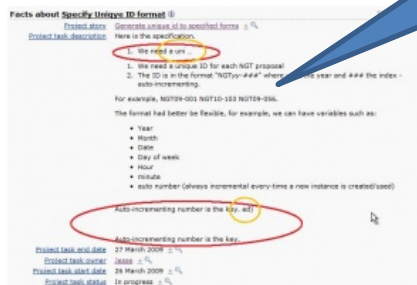
To [ning@teammersion.com](mailto:ning@teammersion.com)

Cc [justinzh@teammersion.com](mailto:justinzh@teammersion.com)

Sent 2009-03-31 03:41:27

Attachments automatically uploaded too

## Attachment(s)



Here is the URL: [http://wiking.vulcan.com/dev/index.php/Specify\\_Unique\\_ID\\_format](http://wiking.vulcan.com/dev/index.php/Specify_Unique_ID_format)

Attached is the picture:

Priority=3

Jesse

Facts about **Bug report: strange text in project task description field in fact box (with attached picture)**

[RDF feed](#)

Mail cc [justinzh@teammersion.com](mailto:justinzh@teammersion.com)

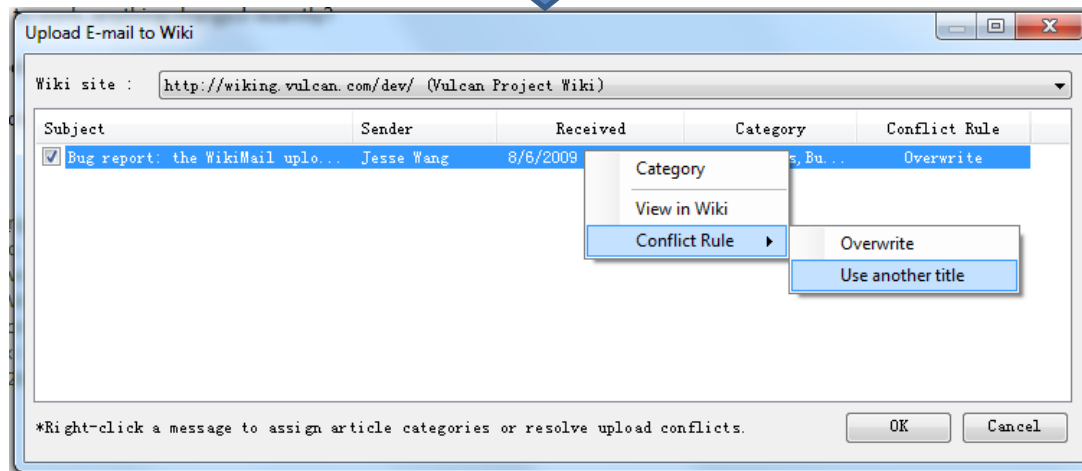
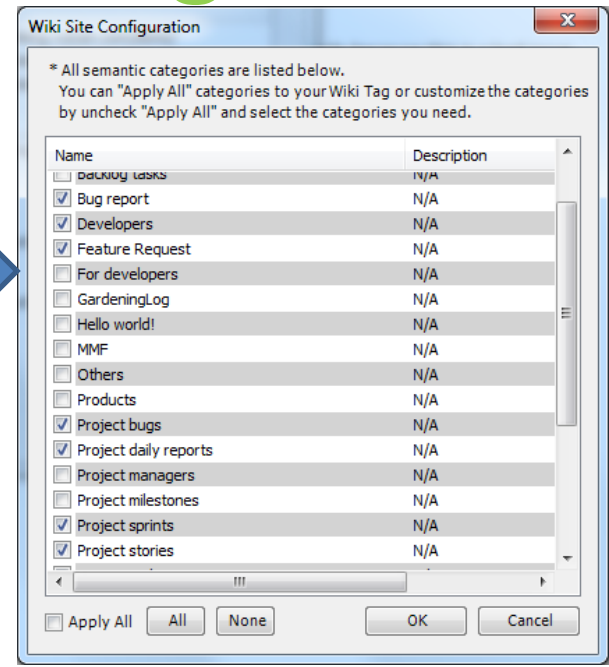
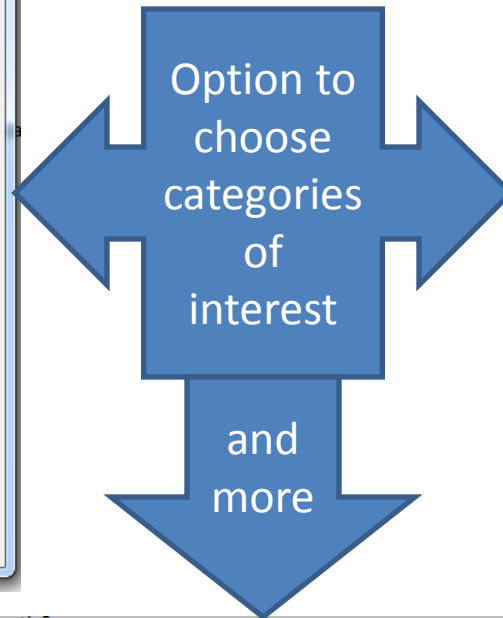
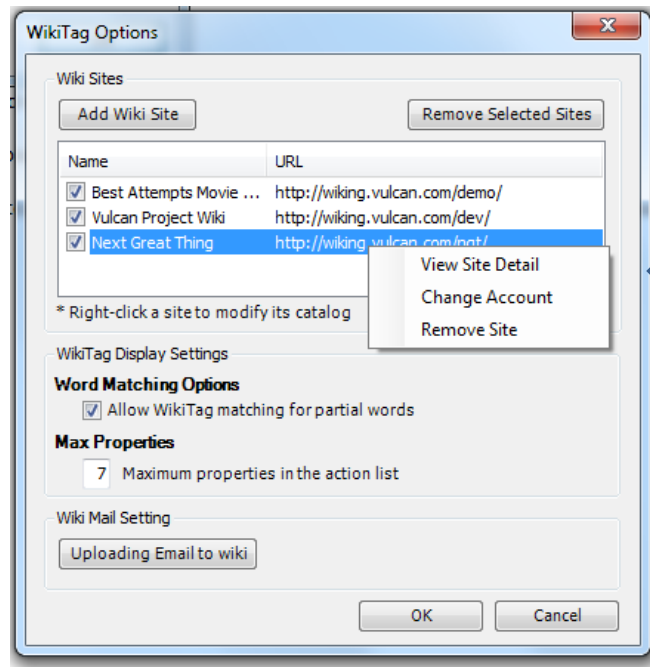
Mail from [JesseW@vulcan.com](mailto:JesseW@vulcan.com)

Mail sent 31 March 2009 03:41:27

Mail to [ning@teammersion.com](mailto:ning@teammersion.com)

Screenshot: Email in Wiki

# Screenshots::Settings



# WikiTags::Smart Connections

- Consume relevant, targeted information
  - With the tools you are *already familiar with*
  - In the context – *better relevance and productivity*
  - Only when you need it – *no information overload*
  - In place – *no search overhead to break workflow*
  - In real time – *data from wiki is live*
- Let you contribute to Wiki
  - *Without knowing* where the content is
  - *Without learning* wiki/template syntax

# Next Steps :: What's in future

- We want to have more users
  - To tell us if WikiTags is helpful
  - To tell us what people want next
- Subversion Integration :: for Software Project Management Workflow
  - Automatically update wiki via svn
  - Prototype released, need beta testers
- Linked Data Integration

# Thank | Help:: you | me

- Send email with Subject: **WikiTags** to [Jesse Wang](#)
- Tweet to @aiwang
- Join our monthly DevCon at
  - [http://smwforum.ontoprise.com/smwforum/index.php/Next generation of semantic wikis](http://smwforum.ontoprise.com/smwforum/index.php/Next_generation_of_semantic_wikis)
- Thanks to:
  - Paul G. Allen
  - Project Halo, Vulcan Technology
  - K. I. T.
  - Ontoprise GmbH
  - TeamMersion LLC
  - All you Semantic Wikiers